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                          Mutants-P318A.ST25
                          SEQUENCE LISTING

      <110>  Covalys Biosciences AG

      <120>  Mutants of O6-Alkylguanine-DNA Alkyltransferase

      <130>  P318A

      <150>  EP04405123.3
      <151>  2004-03-02

      <150>  EP04405465.8
      <151>  2004-07-22

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      gctgatgccg tggaggtccc agcccccgct gcggttctcg gaggtccgga gcccctgatg     180

      cagtgcacag cctggctgaa tgcctatttc caccagcccg aggctatcga agagttcccc     240

      gtgccggcac ttcaccatcc cgtttttccag caagagtcgt tcaccagaca ggtgttatgg     300

      aagctgctga aggttgtgaa attcggagaa gtgatttctt accagcaatt agcagccctg     360

      gcaggcaacc ccaaagccgc gcgagcagtg ggaggagcaa tgagaggcaa tcctgtcccc     420

      atcctcatcc cgtgccacag agtggtctgc agcagcggag ccgtgggcaa ctactccgga     480

      ggactggccg tgaaggaatg gcttctggcc catgaaggcc accggttggg gaagccaggc     540

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Mutants-P318A.ST25
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<220>
<223>  Antisense primer for cloning AGT into pGEX

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<210>  5
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<212>  DNA
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gctagggatc ctacgtttcg gccagcaggc g                                31


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Mutants-P318A.ST25

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<400>  9
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<400>  11
ctactcgcgg cccagccggc catggcggac tacaaagaca tggacaagga ttgtgaaatg    60


<210>  12
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<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Antisense primer for cloning of AGT mutants into phage-display
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<400>  12
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<210>  13
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<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Antisense primer for cloning AGT truncated after 182 into pGEX

<400>  13
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<210>  14
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Mutants-P318A.ST25

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<210>  15
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tgctcgcgcg gctttggggt tgcctg                                  26


<210>  16
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<400>  16
ggagaagtga tttcttacnn bnnbttagca gccctggcag g                41


<210>  17
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<212>  DNA
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<220>
<223>  Antisense primer for randomisation of codons 115-116

<400>  17
gtaagaaatc acttctccga atttcac                                 27


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Mutants-P318A.ST25
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gaccactctg tggcacgg                                          18


<210>  20
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gcagccacgg cagcagtgaa gacggcactg agtgg                       35


<210>  21
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<220>
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<400>  21
ggatagggac aggattgcca ctcagtgccg tcttcactgc                  40


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<400>  22
gtgaaattcg gagaagtgat ttcttactct cacttagcag c                41
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Mutants-P318A.ST25

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cgtaaccgcc cacggctcca ttgatattga cc                                 32


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gtcgcatatg gacaaggatt gtgaaatgaa ac                                 32


<210>   27
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<220>
<223>   Primer for cloning mutant AGT in pET15b

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gattacggga tccttatccc aagcctggct tccc                               34


<210>   28
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gcaatggaat tcggccccccg aggccgctcc caagcctggc ttccc                  45
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Mutants-P318A.ST25

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<400>   29
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ggcgcgccta aaagcttctt a                                                81


<210>   30
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taagaagctt ttaggcgcgc ctatacctgc aggatgatga tgatgatgat gatgatgatg      60

atgatgatgt gccatggata a                                                81


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<210>   32
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<210>   33
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<400>   33
aacggcgcgc cggatcctta gtttcggcca gcaggcgggg agcccga                    47


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Mutants-P318A.ST25
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<400> 34
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<210> 37
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Mutants-P318A.ST25

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<210>  41
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<223> Antisense primer for amplification of errorprone-PCR product

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<210>  45
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Mutants-P318A.ST25

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